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1\ A method comprising:

rendering a polygonal mesh to produce a computer-generated image, the image exhibiting aliasing at its discontinuity edges; and

overdrawing the discontinuity edges as antialiased lines to reduce the aliasing.

- 2. A method as recited in claim 1, wherein the polygon mesh comprises a set of triangles.
- 3. A method as recited in claim 1, wherein the image is stored in memory after rendering, and the overdrawing comprises rendering the discontinuity edges as antialiased lines in the memory to reduce the aliasing at the discontinuity edges.
- 4. A method as recited in claim 1, further comprising identifying the discontinuity edges as a collection of silhouettes and sharp edges.
- 5. A method as recited in claim 1, further comprising: identifying sharp edges prior to said rendering; and finding silhouette edges during runtime, the discontinuity edges being a union of the sharp edges and the silhouette edges.

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6.	A	method	as	recited	in	claim	1,	further	comprising	shading	the
discontinuity	v e	does								•	

- 7. A method as recited in claim 1, further comprising blending selected discontinuity edges.
- 8. A method as recited in claim 1, further comprising orienting the discontinuity edges in a consistent manner.
- 9. A method as recited in claim 1, further comprising asymmetrically blending selected discontinuity edges.
- 10. A method as recited in claim 1, further comprising sorting the discontinuity edges prior to said overdrawing.
- 11. One or more computer-readable media comprising computerexecutable instructions that, when executed, perform the method as recited in claim 1.
 - 12. A method comprising:

 determining discontinuity edges of a polygon mesh; and
 overdrawing the discontinuity edges as antialiased lines.

- 13. A method as recited in claim 12, wherein said determining comprises identifying sharp edges and silhouettes.
- 14. A method as recited in claim 12, wherein said determining comprises:

identifying sharp edges during a preprocess prior to rendering the polygon mesh; and

finding silhouette edges during runtime after rendering the polygon mesh.

- 15. A method as recited in claim 12, further comprising shading the discontinuity edges.
- 16. A method as recited in claim 12, further comprising blending selected discontinuity edges.
- 17. A method as recited in claim 12, further comprising asymmetrically blending selected discontinuity edges.
- 18. A method as recited in claim 12, further comprising orienting the discontinuity edges in a consistent manner.
- 19. A method as recited in claim 12, further comprising sorting the discontinuity edges prior to said overdrawing.

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One or more computer-readable media comprising computer-executable instructions that, when executed, perform the method as recited in claim 12.

21. In a process for rendering computer-generated graphics, a method comprising:

constructing a data structure prior to rendering a polygon mesh; and finding silhouette edges in the polygon mesh during runtime using the data structure; and

omitting concave silhouette edges from the data structure.

- 22. A method as recited in claim 21, further comprising overdrawing the silhouette edges as antialiased lines.
- 23. A method as recited in claim 21, further comprising shading the silhouette edges.
- 24. A method as recited in claim 21, further comprising blending selected silhouette edges.
- **25.** A method as recited in claim 21, further comprising asymmetrically blending selected silhouette edges.

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26. A method as recited in claim 21, further comprising sorting the silhouette edges.

27. One or more computer-readable media comprising computer-executable instructions that, when executed, perform the method as recited in claim 21.

28. In a process for rendering computer-generated graphics, a method comprising:

identifying sharp edges prior to runtime;

constructing a data structure prior to rendering a polygon mesh;

finding silhouette edges in the polygon mesh during runtime using the data structure; and

collecting the sharp edges and the silhouette edges in a list to form discontinuity edges of the polygon mesh.

- 29. A method as recited in claim 28, further comprising shading the discontinuity edges.
- 30. A method as recited in claim 28, further comprising blending selected discontinuity edges.
- 31. A method as recited in claim 28, further comprising asymmetrically blending selected discontinuity edges.

- 32. A method as recited in claim 28, further comprising sorting the discontinuity edges.
- 33. One or more computer-readable media comprising computer-executable instructions that, when executed, perform the method as recited in claim 28.
 - 34. A method comprising:
 rendering a polygonal mesh;
 determining discontinuity edges of the polygon mesh;
 sorting the discontinuity edges according to visibility; and
 overdrawing the discontinuity edges in an order resulting from said sorting.
- 35. A method as redited in claim 34, wherein said determining comprises:

identifying sharp edges prior to said rendering; and

finding silhouette edges during runtime, the discontinuity edges being a union of the sharp edges and the silhouette edges.

- 36. A method as recited in claim 34, wherein said sorting comprises sorting the discontinuity edges according to death.
- 37. A method as recited in claim 34, wherein said overdrawing comprises overdrawing the discontinuity edges as antialiased lines.

38. A method as recited in claim 34, further comprising shading the discontinuity edges.

- 39. A method as recited in claim 34, further comprising blending selected discontinuity edges.
- 40. A method as recited in claim 34, further comprising asymmetrically blending selected discontinuity edges.
- 41. A method as recited in claim 34, further comprising orienting the discontinuity edges in a consistent manner.
- 42. One or more computer-readable media comprising computer-executable instructions that, when executed, perform the method as recited in claim 21.
- 43. A method comprising:
 rendering a polygonal mesh;
 identifying one or more silhouette edges of the polygon mesh for a given viewpoint; and
 - overdrawing the silhouette edges as antialiased lines.
 - 44. A method as recited in claim 43, wherein the identifying comprises: constructing a data structure prior to rendering the image; finding the silhouette edges during runtime using the data structure; and

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storing the silhouette edges in an output list.

- 45. A method as recited in claim 43, further comprising shading the silhouette edges.
- 46. A method as recited in claim 43, further comprising sorting the silhouette edges prior to said overdrawing.
- 47. One or more computer-readable media comprising computer-executable instructions that, when executed, perform the method as recited in claim 43.
 - 48. A method comprising:
 - A. during a preprocess phase, performing the following:

identifying sharp edges present in a polygon mesh used to generate a graphical image;

constructing a data structure to store possible silhouette edges identified during a subsequent tuntime phase;

B. during the runtime phase, performing the following:

rendering the polygonal mesh to produce a rendered image;

identifying silhouette edges that occur from a given viewpoint of the rendered image using the data structure, the silhouette edges together with the sharp edges forming a set of discontinuity edges;

shading the discontinuity edges;

sorting the discontinuity edges; and

overdrawing the discontinuity edges as antialiased lines.

- 49. A method as recited in claim 48, wherein the sorting comprises sorting the discontinuity edges according to depth.
- 50. A method as recited in claim 48, wherein the shading comprises asymmetrically shading the discontinuity edges.
- 51. A method as recited in claim 48, wherein the shading comprises applying blending processes that balance temporal smoothness and spatial sharpness.
- 52. A method as recited in claim 48, wherein the shading comprises orienting the discontinuity edges in a consistent manner.
 - 53. A graphics computing device comprising: a memory to store a polygon mesh; and
- a processing unit to render the polygon mesh, the processing unit being further configured to overdraw discontinuity edges of the polygon mesh as antialiased lines.
- 54. A graphics computing device as recited in claim 53, wherein the polygon mesh comprises a set of triangles.

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55. A graphics computing device as recited in claim 53, wherein the processing unit is configured to detect the discontinuity edges as a collection of sharp edges and silhouettes.

56. A graphics computing device as recited in claim 53, wherein the processing unit comprises:

a central processing unit configured to detect the discontinuity edges; and a graphics processing unit configured to render the polygon mesh and to overdraw the discontinuity edges.

- 57. A graphics computing device as recited in claim 53, further comprising a frame buffer to store the rendered mesh, the processing unit being configured to render the discontinuity edges as antialiased lines in the frame buffer.
- 58. A graphics computing device as recited in claim 53, wherein the processing unit is further configured to shade the discontinuity edges.
- 59. A graphics computing device as recited in claim 53, wherein the processing unit is further configured to blend selected discontinuity edges.
- 60. A graphics computing device as recited in claim 53, wherein the processing unit is further configured to orient the discontinuity edges in a consistent manner.

le	61.	A g	raph	ics comp	outing device	e as	recited in claim	53, w	herein the
process	ng	unit	is	further	configured	to	asymmetrically	blend	selected
disconti	huity	edge	s.						

- 62. A graphics computing device as recited in claim 53, wherein the processing unit is further configured to sort the discontinuity edges prior to overdrawing them.
 - 63. A graphics processing system comprising:

a renderer configured to render a polygon mesh;

a discontinuity edge detector configured to detect discontinuity edges in the polygon mesh; and

an overdrawer configured to overdraw the discontinuity edges as antialiased lines to reduce the aliasing.

64. A graphics processing system as recited in claim 63 further comprising:

a data structure; and

the discontinuity edge detector being configured to find silhouette edges in the polygon mesh using the data structure.

65. A graphics processing system as recited in claim 63 wherein the discontinuity edge detector is further configured to identify sharp edges of the polygon mesh prior to rendering the polygon mesh.

66. A graphics processing system as recited in claim 63 further comprising an edge sorter to sort the discontinuity edges according to depth.

- 67. A graphics processing system as recited in claim 63 further comprising a shading module to shade the discontinuity edges using asymmetric blending.
- 68. A graphics computing device comprising the graphics processing system as recited in claim 63.
- 69. One or more computer-readable media comprising computerexecutable instructions that, when executed, direct a graphics computing device to:
 render a polygonal mesh;
 detect discontinuity edges in the polygon mesh; and
 overdraw the discontinuity edges as antialiased lines to reduce the aliasing.
- 70. One or more computer-readable media as recited in claim 69, further comprising computer-executable instructions that, when executed, direct the graphics computing device to:

identify sharp edges prior to rendering the polygon mesh; and

find silhouette edges after rendering the polygon mesh, the discontinuity edges being a union of the sharp edges and the silhouette edges.

7.	One or more comput	ter-readable n	nedia	as recit	ed in claim	69, fur	ther
comprising	computer-executable	instructions	that,	when	executed,	direct	the
graphics cor	mputing device to shad	e the disconti	nuity	edges.			

- 72. One or more computer-readable media as recited in claim 69, further comprising computer-executable instructions that, when executed, direct the graphics computing device to sort the discontinuity edges according to depth.
- 73. One or more computer-readable media as recited in claim 69, further comprising computer-executable instructions that, when executed, direct the graphics computing device to:

orient the discontinuity edges in a consistent manner; and blend the discontinuity edges using asymmetric blending.

74. A system comprising:

means for identifying sharp edges present in a polygon mesh;

means for rendering the polygonal mesh to produce a rendered image;

means for identifying silhouette edges that occur from at least one viewpoint of the rendered image;

means for shading the discontinuity edges;

means for sorting the discontinuity edges; and

means for overdrawing the discontinuity edges as antialiased lines.